

FIG. 1

Step Response Estimation - Wavelet Technique

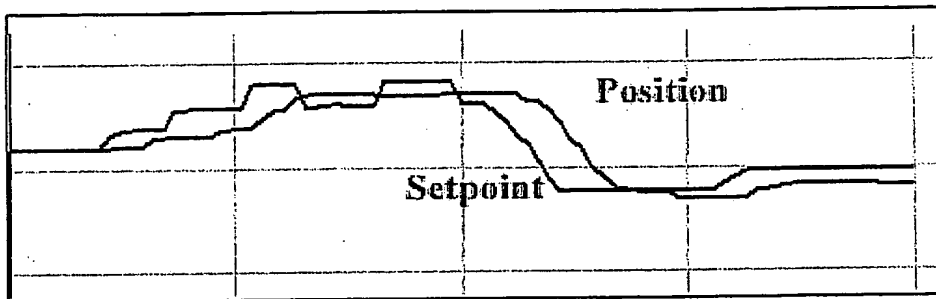
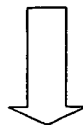


FIG. 2A



Take the derivative

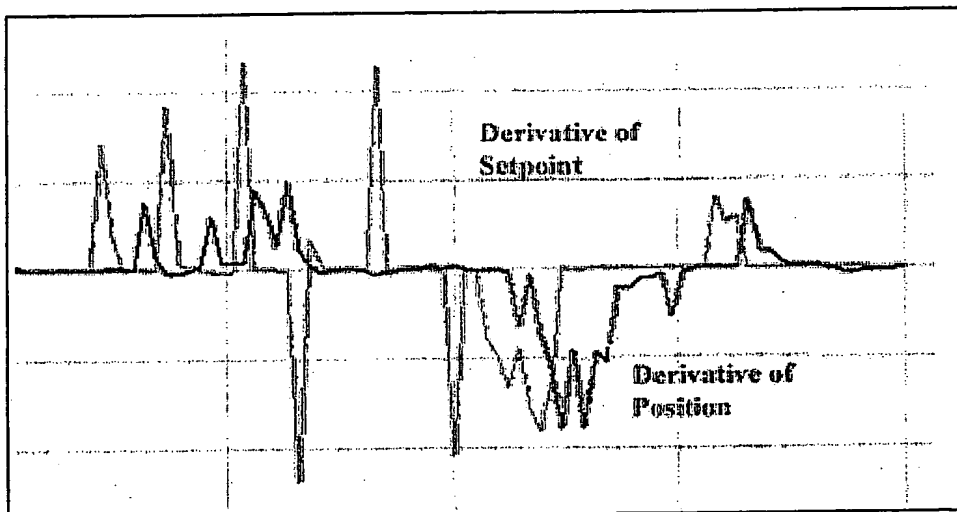


FIG. 2B



Solve the matrix for ω , the wavelet

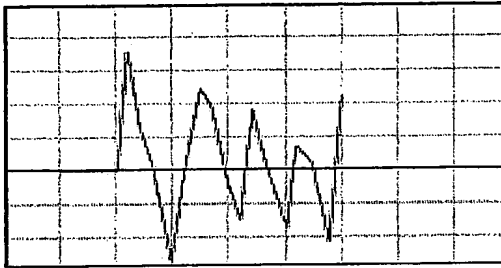


FIG. 2C



Convolve the wavelet with a unit impulse (same as integrating)

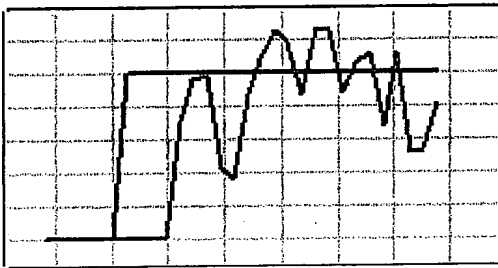


FIG. 2D

Step Response Estimate

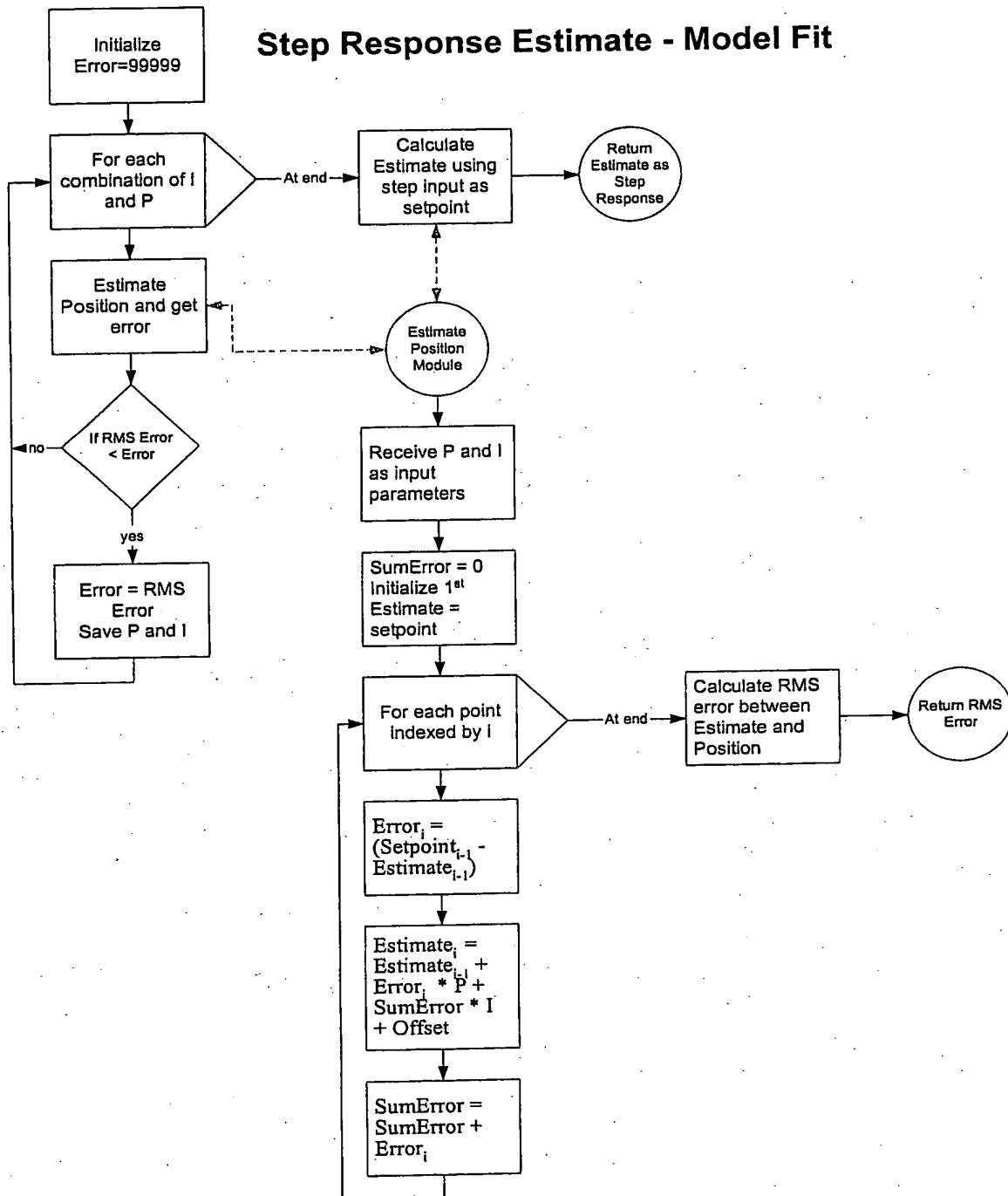


FIG. 3

Pressure vs Position

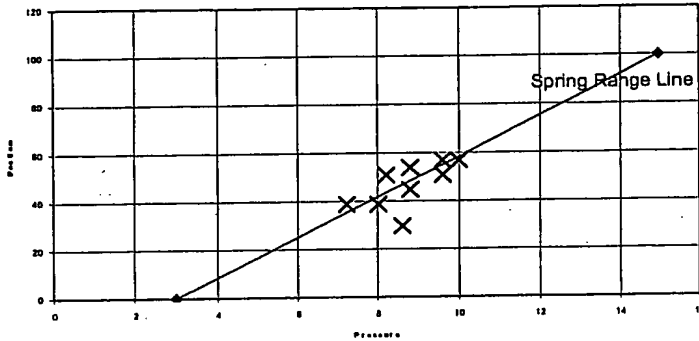


FIG. 4A

Pressure vs Position

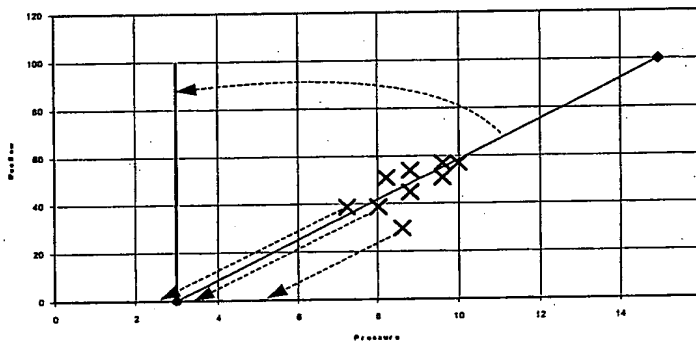


FIG. 4B

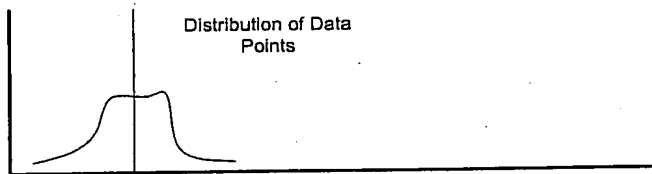


FIG. 4C

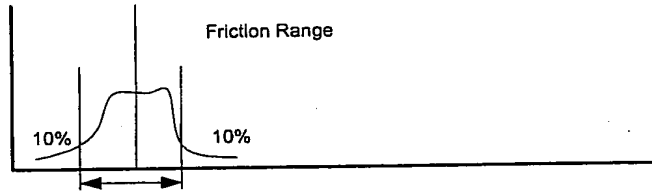


FIG. 4D

Pressure vs Position

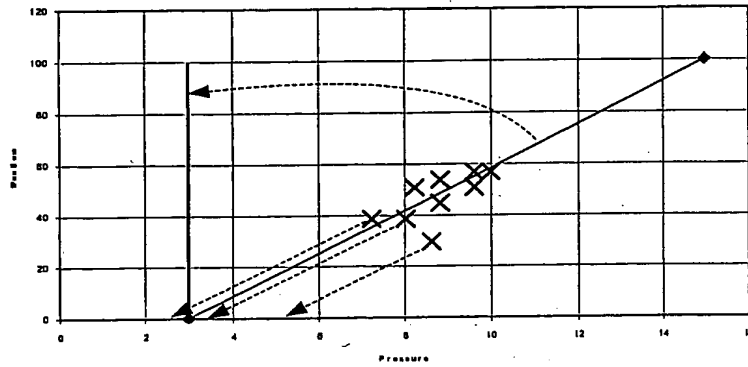


FIG. 5A

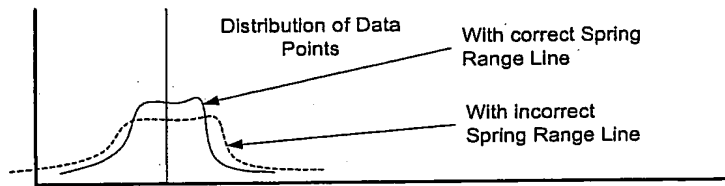


FIG. 5B

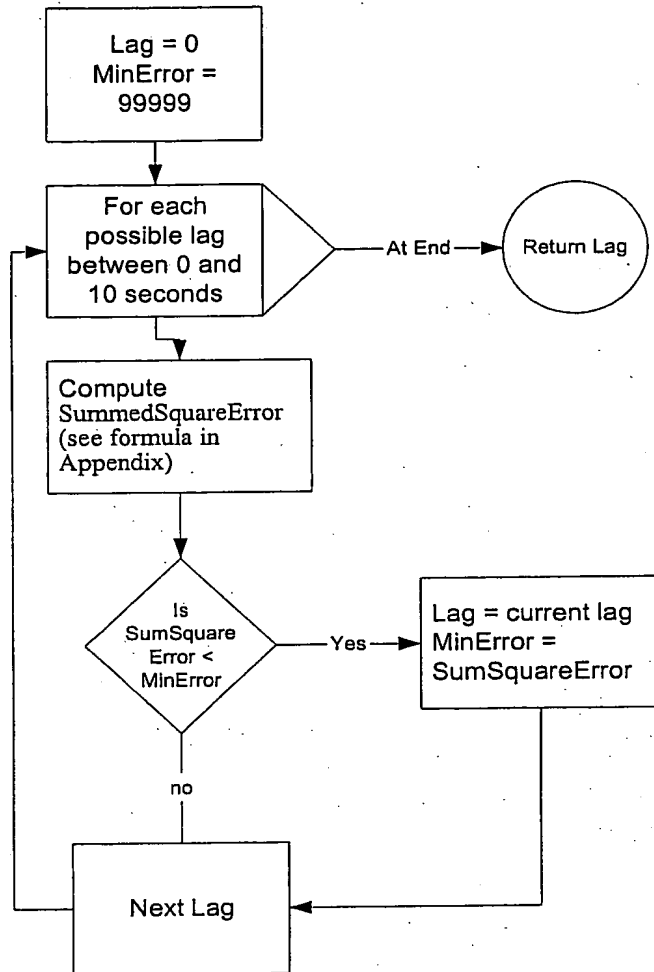


FIG. 6